



## GT2-P12K

Stylus type High-precision Sensor head



## Specifications

Model	GT2-P12K <sup>*1</sup>	
Detection system	Scale Shot System II, absolute (no tracking errors) type	
Measuring range	12 mm	
Resolution	0.1 μm	
Indicated accuracy	1 μm (p-p) <sup>*2</sup>	
Measuring force	Downward mounting	1.0 N <sup>*3</sup>
	Side mounting	0.95 N <sup>*3</sup>
	Upward mounting	0.9 N <sup>*3</sup>
Sampling cycle	4 ms	
Mechanical response	10 Hz <sup>*2</sup>	
Operation indicator light	2-colour LED (red, green)	
Environmental resistance	Enclosure rating	IP67G (JIS) <sup>*4</sup> , IP67 (IEC), NEMA Type 13 <sup>*4</sup>
	Ambient temperature	-10 to +55 °C (No freezing)
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm, 2 hours in each of the X, Y, and Z directions
	Shock resistance	1,000 m/s <sup>2</sup> (IEC60068-2-27)
Materials	Main body	Main body case: SUS 303, Status indicator: PET, Sensor head-relay connector cable: PUR, Relay connector: PBT, Spindle of GT2-PA12K/PA12: SUS430 (Fluorine coating)
	Dust boot	NBR
	Contact	SUS304, cemented tungsten carbide <sup>*5</sup>
Sensor head cable	Optional (connect to relay connector)	
Weight	Approx. 35 g (not including cable) <sup>*6</sup>	

<sup>\*1</sup> Note: You may not be able to connect the sensor head to the amplifier unit depending on when the amplifier unit was purchased. For details, contact your local sales office.

<sup>\*2</sup> Value when the ambient temperature is 20 °C.

<sup>\*3</sup> Representative value at the centre of the measuring range. Please note that the measuring force varies by the installation state of the dust boot. This is a representative value when using the GT2-PA12K/PA12 with a pressure of 0.25 MPa. The measuring force varies depending on the air pressure used. For details, see table 1.  
No dust boots are used with the GT2-PA12K/PA12.

<sup>\*4</sup> When an M8 oil-resistant cable (GT2-CHP2M/CHP5M/CHP10M) is used for the sensor head cable.

<sup>\*5</sup> Contacts are available as options sold separately.

<sup>\*6</sup> Including the relay connector.

**Dimensions**

\* Download CAD file or product manual for larger image/text and more detail.

gt2-p12k\_dimension\_01.gif

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